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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,152	09/09/2003	Isao Mochizuki	117047	1896
25944	7590	02/19/2008	EXAMINER	
OLIFF & BERRIDGE, PLC			MOON, SEOKYUN	
P.O. BOX 320850			ART UNIT	
ALEXANDRIA, VA 22320-4850			PAPER NUMBER	
			2629	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.		Applicant(s)	
	10/657,152		MOCHIZUKI ET AL.	
	Examiner		Art Unit	
	Seokyun Moon		2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 January 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-8, and 10-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1,3-8, 10-17 and 19-32 is/are allowed.
- 6) ☒ Claim(s) 18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. In the previous Office Action, independent claims 1 and 8 were rejected under 35 U.S.C. 103(a) and claims 2 and 9 which depend on claims 1 and 8 respectively, were objected to.

The Applicant has amended claims 1 and 8 to include the subject matter which is previously disclosed in the objected claims 2 and 9.

Accordingly, in this correspondence, claims 1 and 8 are allowed.

Independent claim 18 was allowed in the previous Office Action. However, the Examiner respectfully submits that, in this correspondence, the claim is rejected based on a combination of the prior arts of record and a newly presented prior art.

Accordingly, this Office Action is made Non-Final.

Allowable Subject Matter

2. **Claims 1, 3-8, 10-17, and 19-32** are allowed.

Claim Objections

3. **Claim 18** is objected to because of the following informalities: Line 14 - "*second keyboard units are in the folded stated*".

Appropriate correction is required.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claim 18** is rejected under 35 U.S.C. 103(a) as being unpatentable over Leman (US 2001/0054986), Katz (US 6,088,220), Furuki (2002/0050980), and further in view of Batio (US 6,081,207).

Leman teaches a personal computer [fig. 1] including:

a computer main unit ("102") provided to a keyboard unit; and

a foldable display including a cover unit (the cover for the "*first display 106*" and the "*second display 110*") having a length longer than the keyboard unit, the cover unit including a support portion at a lower end for rotatably supporting the cover unit in a cantilever state at one edge of the computer main unit so that the display is openable and foldable.

Leman does not teach the foldable display being a flexible display.

However, Katz [fig. 6] teaches an idea of disposing a flexible display sheet set in a cover unit of a display and thus providing a foldable flexible display.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the foldable display of Leman to include a flexible display sheet instead of using a conventional liquid crystal display, as taught by Katz, since a flexible display is well known for light weight with great flexibility.

Leman as modified by Katz does not teach the personal computer including a foldable keyboard.

However, Furuki teaches an idea of providing a personal computer [par. (0002) lines 1-2] including a foldable keyboard [fig. 18], which includes a first keyboard unit ("2a"), a second keyboard unit ("2b"), and a rotatable connecting part ("4") provided between the first and second keyboard units, so that the first and second keyboard units are rotated to come apart from each other into an unfolded,

horizontally arranged state through the connecting part for use of the keyboard, while the first and second keyboard units are rotated to come close to each other into a closed folded state through the connecting part for nonuse of the keyboard [fig. 17].

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the personal computer of Katz as modified by Leman to include a foldable keyboard instead of including a conventional keyboard, as taught by Furuki, in order to allow the personal computer of Katz to include more keys/buttons on the keyboard.

Katz as modified by Leman and Furuki does not teach the cover unit including a projection member formed at another lower end opposite to the end formed with the support portion so that a bottom surface of the projection member is flush with a bottom surface of the opened keyboard and the computer main unit.

However, Batio [fig. 19] teaches an idea of including a projection member at a lower end portion of a cover unit of a display ("204") of a portable computer so that the bottom surface of the projection member is flush with a bottom surface of a keyboard ("202") of the portable computer.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the cover unit of the personal computer of Katz as modified by Leman and Furuki to include a projection member at a lower end of the cover unit so that a bottom surface of the projection member is flush with a bottom surface of the keyboard, as taught by Batio, in order to support a portion of the foldable display when the display is unfolded state, and thus to provide a stable display.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Seokyun Moon whose telephone number is (571) 272-5552. The examiner can normally be reached on Mon - Fri (8:30 a.m. - 5:00 p.m.).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

February 15, 2008

- s.m.


ALEXANDER EISEN
SUPERVISORY PATENT EXAMINER